



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: SHIMIZU, Takehiro, et al.

Group Art Unit:1752

Serial No.: 10/589,830

Examiner: (Not Yet Assigned)

Filed: August 17, 2006

For:

PROCESS FOR PRODUCING ALICYCLIC OXETANE COMPOUND

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Date: January 4, 2007

Sir:

The attention of the Patent and Trademark Office is hereby directed to a copy of the PCT Notification of Transmittal of Copies of Translation of the International Preliminary Report on Patentability attached herewith.

This Report is submitted herewith to be placed in the U.S. Patent and Trademark Office file of this case.

Respectfully submitted,

ARMSTRONG, KRATZ, QUINTOS

IANSON & BROOKS, LI

James E. Armstrong, IV

Attorney for Applicants

Reg. No. 42,266

23850

PATENT TRADEMARK OFFICE

JAM/rk Atty. Docket No. 060588 **Suite 1000** 1725 K Street, N.W. Washington, D.C. 20006 (202) 659-2930

Enclosure: PCT Notification of Transmittal of Copies of Translation of the International Preliminary Report on Patentability

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

JAPON

NARUSE, Katsuo 5th Floor, TKK Nishishinbashi Bldg. 11-5, Nishi-shinbashi 2-chome Minato-ku, Tokyo 1050003



Date of mailing (day/month/year) 07 December 2006 (07.12.2006)		
Applicant's or agent's file reference NTK05-1657WO		IMPORTANT NOTIFICATION
International application No. PCT/JP2005/002211		International filing date (day/month/year) 15 February 2005 (15.02.2005)
Applicant	NIPPON STEEL CHE	MCAL CO., LTD. et al

1	Transmittal of	the	translation	to	the applicant.
---	----------------	-----	-------------	----	----------------

The International Bureau transmits herewith a copy of the English translation of the international preliminary report of
patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70 Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
NTK05-1657WO	FOR FURTHER ACTION			
International application No.	International filing date (day/r			
PCT/JP2005/002211	15.02.2005	23.02.2004		
International Patent Classification (IPC) or nati	onal classification and IPC			
C07D305/06 (2006.01)				
· · ·				
Applicant				
NIPPON STEEL CHEMICAL	L CO., LTD.			
This report is the international prelin under Article 35 and transmitted to the	minary examination report, est	ablished by this International Preliminary Examining Authority		
2. This REPORT consists of a total of		sheets, including this cover sheet.		
3. This report is also accompanied by A				
	l to the International Bureau) a	total of 2 sheets, as follows:		
sheets of the descrip	ntion, claims and/or drawings w	which have been amended and are the basis for this report and/or		
sheets containing re Instructions).	ectifications authorized by this	Authority (see Rule 70.16 and Section 607 of the Administrative		
sheets which supers	sede earlier sheets, but which the international application as f	nis Authority considers contain an amendment that goes beyond lied, as indicated in item 4 of Box No. I and the Supplemental		
Box.				
b (sent to the International	Bureau only) a total of (indicat	e type and number of electronic carrier(s))		
		, containing a sequence listing and/or tables		
related thereto, in compute	r readable form only, as indica	ted in the Supplemental Box Relating to Sequence Listing (see		
Section 802 of the Adminis				
4. This report contains indications relat	ing to the following items:			
Box No. 1 Basis of th	e report			
Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of un	nity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of	of completion of this report		
Name and mailing address of the IPEA/JP	Autho	Authorized officer		
Facsimile No.	Telep	hone No.		

International application No.
PCT/JP2005/002211

Bo	x No. I	[Basis of the report		
1.	Witl	h regard cated un	to the language, this report is based on the international der this item.	onal application in the language in which it	was filed, unless otherwise
l	\Box		eport is based on translations from the original langua		
	_	which	is the language of a translation furnished for the purp	poses of:	
		H	international search (Rule 12.3 and 23.1(b))		
		H '	publication of the international application (Rule 12.4	()	
		LJ i	international preliminary examination (Rule 55.2 and	/or 55.3)	
2.	rece	iving Oj report):	to the elements of the international application, this fice in response to an invitation under Article 14 and	report is based on (replacement sheets wh. re referred to in this report as "originally	ich have been furnished 10 the filed" and are not annexed to
	X		ernational application as originally filed/furnished		
		the des	scription:		
		pages	1-12		as originally filed/furnished
		pages*	-	received by this Authority on	
		pages*		received by this Authority on	
	\boxtimes	the cla	ims:		
		nos.	2,3		as originally filed/furnished
		nos.*			
		nos.*	•		•
		nos.*		received by this Authority on	
	Ш	the dra	wings:		
		sheets			as originally filed/furnished
		sheets*	k	received by this Authority on	
		sheets*		received by this Authority on	
		a seque	ence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.	
3.		The an	nendments have resulted in the cancellation of:		
		1	he description, pages		•
			he claims, nos.		
		\Box	La description de la resulta de		
					**
4.		This re	port has been established as if (some of) the amend	ments annexed to this report and listed bel	ow had not been made, since
		they ha	ave been considered to go beyond the disclosure as fil	ed, as indicated in the Supplemental Box (F	Rule 70.2(c)).
		$\overline{\Box}$.	he description, pages		
		1 1	he claims, nos.		
•			he drawings, sheets/figs		
			he sequence listing (specify):		
*	If ite	т 4 арр	lies, some or all of those sheets may be marked "supe	erseded."	

International application No.
PCT/JP2005/002211

1.	Statement	anations su	porting such statement	
	Novelty (N)	Claims	1-3	YES
		Claims		NO NO
	Inventive step (IS)	Claims	1-3	YES
		Claims		NO NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 11-106380 A (Ube Industries, Ltd.), 20
April 1999

Document 2: JP 11-335314 A (Mitsui Chemicals Co., Ltd.),
7 December 1999

Document 3: JP 10-204002 A (Dainippon Ink & Chemicals, Incorporated), 4 August 1998

Document 4: JP 06-329569 A (New Japan Chemical Co., Ltd.), 29 November 1994

Claims 1 to 3

Document 1 sets forth an aromatic oxetane compound having an aromatic residual group represented by general formula (5) in the description of this application.

Documents 2 to 4 indicate that a substituted aromatic compound is subjected to nuclear hydrogenation in the presence of a hydrogenation catalyst in order to obtain a substituted alicyclic compound (see in particular document 2, claim 2 and embodiments; document 3, claim 1 and embodiments; and document 4, claim 1 and embodiments).

However, the feature wherein an aromatic oxetane compound having an aromatic residual represented by general formula (4) or (5) is subjected to nuclear

International application No.
PCT/JP2005/002211

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

hydrogenation, thereby producing a corresponding alicyclic oxetane compound, is neither disclosed nor suggested in documents 1 to 4 which are related to said invention.

That being the case, the invention set forth in claims 1 to 3 is novel and involves an inventive step in relation to documents 1 to 4.

International application No.

PCT/JP2005/002211

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

In a letter received by this International Preliminary Examining Authority on 17 January 2006, the applicant has amended the claims in page by page, but is normally preferable that amendments to claims be carried out claim by claim.